

NISTTech

OPTICAL TEMPERATURE SENSOR AND USE OF SAME

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Abstract

A thermometer includes a substrate; and optical resonator disposed on the substrate and including an optical resonance, the optical resonator being configured to receive a resonant frequency corresponding to the optical resonance, and a waveguide disposed on the substrate proximate to the optical resonator to receive input light, to communicate the resonant frequency, to the optical resonator, and to transmit output light; wherein an aperture is interposed between; the substrate and the optical resonator, the substrate and the waveguide, or a combination comprising at least one of the foregoing, and the thermometer is configured to change the optical resonance in response to a change in temperature of the optical resonator.

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Status of Availability

This invention is available for licensing exclusively or non-exclusively in any field of use.

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